Jan. 30, 1905

ELECTRIC HEATING

The Simplex Electrical Co.

(HEATING DEPARTMENT)

Sidney and Franklin Streets, CAMBRIDGEPORT, MASS., U.S.A.

Sole Manufacturers under the patents of THE AMERICAN ELECTRIC HEATING CORPORATION

1137 Monadnock Building, CHICAGO.

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That the electric heating industry is now firmly established as one of the important branches of electrical development, is due to serious efforts to apply the best available electrical and mechanical talent in producing an output. To-day we are able to offer the goods mentioned in the following pages with the assurance gained from experience, that they will be found durable, effective and efficient. We have had many commendations, but refrain from including them in our catalogue. To manufacturers interested we can refer to others in their vicinity who will gladly give them the benefit of their experience up to date.

PLEASE NOTE.

All articles listed are "non-inductive," consequently are equally effective on direct or alternating circuits. It is VERY important that the ACTUAL VOLTAGE of the circuit be given when ordering.

No articles listed, except Air Heaters, are made for a higher pressure than 120 volts, though some can be made to order for 220 and 500 volt circuits.

All goods using 200 Watts or less are supplied with Flexible Conductor and Lamp-Socket Plugs. Articles using more than 200 Watts do not have Lamp-Socket Plugs.

In addition to the goods listed, we manufacture many special forms of heaters for a variety of machine tools, and solicit correspondence for special applications of heat.



SHOW CASE ASSORTMENT.

To enable dealers and lighting companies to keep displayed in an attractive manner an assortment of heating goods in popular demand, we have made a selection (listed below) with which we send the three-foot oak showcase illustrated above for \$25,00 net.

The articles listed in this assortment are moderate in price and of a character to interest any purchaser in the further use of electric heaters.

One No. 1701 44 inch stove, complete with cord and plug.

One No. 1702 6 inch stove, with cord.
One No. 1502 44 lb. small seaming iron, with stand, cord and plug.

One No. 1504 61 lb. laundry iron, with stand and cord.

One No. 1274 curling iron heater, with cord and plug. One No. 981 heating pad, with cord and plug.

One No. 1721 aluminum stew pan

One No. 901 plug switch complete.

One No. 241 soldering iron.



ELECTRIC RADIATORS.

ELECTRIC RADIATORS.

NLESS electricity is produced at a very low cost it is not commercially practicable to heat residences or large buildings. While this is true, the electric heater still has a wide field of application, in heating small offices, bathrooms, snuggeries, cold corners of rooms, street railway waiting rooms, the summer villa on cool evenings, and in mild climates a still wider range. It has the peculiar advantage of being instantly available, and the amount of heat is regulated at will. The heaters are perfectly clean, do not vitiate the atmosphere, and are portable.

No definite rule can be given to determine the amount of electricity necessary for heating a given space, though approximate estimates can be made by allowing from 1 to 2 watts for each cubic foot of air space to be heated. The latter amount for well-constructed buildings in cold weather, or for quickly heating a bathroom. The heaters shown are usually arranged to give three different adjustments of heat. Numbers 101, 102, 103, 110, 111 and 112 are made for any circuit up to 600 volts, and the others for any of the usual incandescent lighting voltages.

	Ler	ngth	Hei	ght	w	idth	Maximum Watt Capacity	Price
Gold Bronze	Finish 26	in.	22	in.	2	in.	2000	\$25.00
44	26	in.	22	in.	4	in.	4000	35.00
+ 6	25	in.	22	in.	7	in.	6000	45.00
6.	22	in.	8	in.	2	in.	770	12.00
6.6	26	in.	104	in.	2	in.	1200	15.00
6.6	26	in.	105	in.	4	in.	2400	20.00
Black Japan	Finish, 2 plat	es, each	7×8	3			1000	10.00
Black Finishe	d, ornamenta	liron ((See	illustra	atio	n)	800	15.00
44	6.6	4.6					1200	25.00



PORTABLE STOVES.

PORTABLE STOVES

R DISC HEATERS, have such a universal application and are so clearly illustrated that extended description is unnecessary. Their form is such that they can be used for heating anything that can be placed on a flat, hot surface, but it is important that the utensil used have a perfectly flat surface on the bottom for best results.

An important characteristic is that they are "hot" in about two minutes. The No. 1701 is \$4 inches in diameter, and is designed to connect to a lamp socket, making it quickly available anywhere throughout the house, for heating small quantities of food or fluid. It is indispensable in the nursery or invalid's room. All stoves are mounted on enamelled slate, but have five feet of our special flexible cord and can be had from stock for circuits of \$2-100-110 or 120 volts, alternating or direct current

No.						Ce	pacity	Price
1700	3.1	in.	in	diameter.	special for dentists' use		Watts	\$5.00
1701	41	4.4		44	cord and lamp-socket plug	200	**	4.00
1702	6	4.6	**	6.6	no plug	440	4.6	6 00
1703	7	4.6	6.6	6.6		600	4.6	7.00
1704	8	4.6	4.6	64	61	825	6.6	10 00
1705	10	6.6	6.6	4.5	4.6	1100	61	13.00
1706	12		+ 6	4.6	4+	1300	4.6	16.00
1708	15	4.4	6.6	64	4.6	1800	6.	21.00

STOVES WITH SWITCHES

For three heats are very desirable because the current can be reduced at will (thereby lessening

	,			near 15 co		· ·				
No.								Maxim	um Current	Price
1731	44	in.	in	diameter,	cord	and	plug	200	Watts	\$6.00
1732	6	11		**	4.6	no	44	440	1.6	8.50
1733	7	6.5	6 .	6.	* *	* *	4.	600	4.6	10.50
1734	8	1.0	**			14	6.6	825	6.6	13.50
1735	10	6.6	6 .	4.	4.6	pluj	g switch	1100	4.6	16.00
1736	12	6.6	4.4	6.4	4.6		**	1300	6.6	19.00
1738	15	64		++	4.4	66	44	1800	6.6	24.00
1742	6	6.6	6.6	nickel pltd	., orna	ment	al stand, very attract	ive 550	6.6	10.50
1743	7	+ 6	4.6	same as	No. 1	742		660	4.6	12.50

5



TEA KETTLES.

TEA KETTLES AND STANDS.

.. JUST FOR TWO."

A handsome nickel plated copper Tea Kettle, especially adapted for use with the $4\frac{1}{2}$ inch stove.

No.		Capacity	Price
1724	Stove and Kettle (1 pt.)	200 Watts	\$6.00
1726	Stove and Kettle (I pt.)	200 Watts, 3 heats	8.00
1725	Kettle only (for stove No. 1701)		2.00

" FIVE O'CLOCK TEA "

With this very handsome combination one can complete the furnishings of a tea-table in keeping with its dainty silver, china and linen. The silent electric current quickly supplies the necessary heat without the use of alcohol, matches or fame, and also provides a stove (when the kettle is removed) on which to warm wafers or crackers, or with a suitable pan, make a Welsh rarebit. It is artistic in design, highly finished in silver or nickel plate. Can you find a more satisfactory present for a woman? Made for any electric lighting circuit.

No.		Capacity	Price
1872	One quart, nickel plated, 3 heats	440 Watts	\$15.00
1873	" silver " 3 "	440 "	20.00
1874	Two " nickel " 3 "	550 "	17 00
1875	4 " silver " 3 "	550 "	22.00

DOMESTIC TEA KETTLES.

Tea kettles with heater contained in kettle are made in two sizes, two quarts and four quarts, respectively, of copper, nickel-plated, with hardwood handles.

No.					Price
851	Two	quarts,	440	Watts	\$12.50
853	Four		770	64	14.00



ELECTRIC STEW PAN or EGG BOILER.

THIS is a universal utensil, very attractive in appearance, and has proved to be one of the most salable of electric heating devices. The heater consists of a 4½ inch disc to which is fitted a (removable) aluminum stew pan with capacity of 1½ pints. Just the thing to use in light housekeeping, exactly what is wanted in a physician's office, drug store, hospital, the nursery, or where a little food is to be cooked, a hot drink made, or small quantities of hot water required. Connects to any lamp-socket relaxed complete with cord and plup.

No.							Capacity.	Price.
1720	Heater	and	Aluminum	Stew	Pan		200 Watts	\$5.00
1728	44	6.6	+4	61	4.4	3 heats	200 "	7.00

COFFEE POTS.

No. 1722 Coffee Pot is of the French type, made very substantially of copper, nickel plated. One quart capacity. It is removable, leaving the heater available for heating other vessels, toasting, etc. It is sent complete with cord and plug, ready to attach to any lamp socket.

No.		Capacity.	Price.
1722	Coffee Pot and Heater,	200 Watts	\$7.50
1727	Coffee Pot only.		3,50

In addition to above, we make a coffee pot of copper, nickel plated, of the French type, similar to above, except that the coffee pot proper is immersed in a hot water bath and the water is kepthot by an electric coil heater. Unlike the one described above, the heater cannot be used as a stove, but can be employed as a cooker for oatmeal, etc., by the addition of another vessel.

No. Capacity Price 256 Coffee Pot, Complete, with coil, I quart, 400 Watts \$13.00

The Electric Tea Kettle shown in the illustration is No. 1726, listed on page 6. State voltage when ordering.



CHAFING DISH.

ELECTRIC CHAFING DISH.

THE use of a chafing dish has become well-nigh universal; but how frequently does it happen that when the guests or family are waiting for the host to exhibit his skill, it is discovered there is no alcohol in the house?

The Electric Chafing Dish requires no alcohol, but is always ready for use. It is furnished in a graceful pattern, in the conventional form, of spun copper, highly finished in silver or nickel. A most acceptable present for any one. Adapted to any lighting circuit.

No.		Capacity	Price
203	Two quarts, nickel plated,	440 Watts	\$15.00
204	" silver "	440 11	20.00

An electric heater can be applied to any chafing dish at an expense of from \$8.00 to \$10.00 and in most cases it can be so added that the alcohol lamp may be used if for any reason there is occasion. Those listed above are for electric heat only.

No.									Price
1723	An Aluminu	ım Blazer	for use	with	6-inch	Stoves	(Blazer	only),	\$1.75



FARINA BOILER.

FARINA BOILER.

This very useful device has proved to be the most convenient for a great variety of uses. The outer vessel is of heavy supper nickel plated, the inner being made entirely of porcelain. The heating coult also nickeled us ma water hash surrounding the porcelain put in which the cooking is done. It is so constructed that all parts are easily separated as shown in the illustration.

Any little article of tood prepared and served in an attractive manner is always more palatin and this adds much to its enlayment whether one is ill or well. For the many uses it
which this cooker may be applied it is tilded. It is no designed that these divisions of hear may
be obtained, the maximum to quickly hear up the vessel, then a less amount may be used to do
the cooking or a still less amount to keep the contents of the vessel. Made for direct or alternature current, the usual voltages used for righting.

Nu		Maximum Watte	Miller
353	One quart, three hears	440	\$19 41
354	Two quarts, "	00.1	13.59



1184 BROILER.



1423 GRIDDLE.

THE ELECTRIC BROILER.

THE Electric Broiler is made entirely of cast iron, is light, easily portable, and superior to any heretofore made. It is ready for use in twelve minutes after current is turned on, and will broil "to a turn" in from 10 to 15 minutes (according to thickness) one or two porter-house steaks or four to six chops. Made for 50, 100, 110, 120 volts.

No. 1184 Broiler, size 9x12 inches, two heats, if so ordered, Maximum Watts, 1300 \$15.00

GRIDDLE CAKE COOKERS.

These useful heaters are not only the best device ever used for griddle cake cooking, but are equally useful for cooking any food that may be prepared on a hot, flat surface, or they may be used as a stove for heating utensils, the surface temperature being about 700 degrees F. The absolutely constant, uniform high heat always produces a light, thoroughly cooked cake. The griddle is always "just right" and the operator cannot change it. Many of the large hotels use these exclusively.

No.	Price
1420 6 in. diameter	\$ 7.50
	12.00
1422 9X12	15.00
1423 12x18 in., hotel, 1500 Watts	16.50
1424 12x18 in. " three heats	10.50



600 OVEN.

ELECTRIC OVENS.

No one except the cook knows how much cooking is or may be done with the oven. From the delicious mufin at breakfast to the dainty pastry at dinner, all the products of flour as well as the roasts and innumerable food items by which we live, are cooked entirely in the oven.

The perfect results which are easily obtained with the electric oven are due to the arrangement of heat supply, which permits the temperature at the top, sides, or bottom to be independently changed at will while the general temperature of the oven is shown by its thermometer. Because the operation of each different switch produces a certain definite change in the heat supply, any one can with certainty reproduce results found by experience to be the best. No heat escapes to affect the temperature of the room. In common with all electric heating devices it is independent of all clase and may be placed where most convenient and at a height to avoid the necessity of stooping to inspect its contents.

No. 600 One compartment with removable shelf, size inside IIXI3½XI7 inches deep — 3 heats in a variety of combinations — Maximum Watts 1500,

\$60.00



661 PLATE WARMER.

PLATE WARMERS.

PLATE warmers heated by gas, oil or over furnace registers are positively dangerous if used to keep food warm, because the contents are exposed to the products of combustion or dust from furnace pipes. The perfect cleanliness of an electric plate warmer is enough to warrant their exclusive use.

We make one shown in the illustration, No 66r, which is designed for use in dining room or pantry or for private service in rooms at hotels, cafes, etc.

It is made in a most substantial manner of heavy "block tin" with polished brass trimmings; the interior is divided by shelf; and a handle on the top makes it convenient to carry safely when filled. This type is used for private service at the Waldorf, Astoria, on private yachts, etc.

In addition to those shown we have supplied plate warmers and heaters for plate warmers for the pantries of many hotels, steam yachts and dwellings, as well as heaters for kitchen elevators and serving rooms. Estimates will be furnished on receipt of specifications for any special size.

No. 661 12x12x15 inches high, 300 Watts

\$20.00



HOT WATER URNS.

HOT WATER URNS.

BELOW are listed our standard hot water urns made of copper, heavy nickeled and are complete with switches arranged to give three divisions of heat. The maximum current is to be used when it is desired to quickly get hot water when starting with everything cold; when once hot the minimum current is sufficient to maintain the contents at about the boiling point. We can apply heaters to any of the standard coffee, the or hot water urns in general use. Those having "water jackets" must be sent to us to be fitted. Plain urns we can send coils for when capacity, inside depth and diameter of urn are given.

The one gallon urn has proven a very popular article for small restaurants, barber-shops, offices of tea-brokers and office building lunch rooms. It is quite ornamental.

i tea-b	rokers and omce building lunch rooms It is quite offiamental.	
No.		Price
1453	One gallon, plain top, black polished slate stand, nickel legs. Maximum Watts 550; Medium 225; Minimum 110	\$18.00
1455	Two gallons, plain top, three heats, same style as 1453, Maximum 660; Medium 440; Minimum 220	20 00
457	Three gallons, plain top, with water-glass, three heats. Maximum 1320; Medium 660; Minimum 330	35 00
458	Three gallons, platform top for glasses, with water-glass three heats. Maximum 1320; Medium 660; Minimum 330	40.00
459	Five gallons, plain top, with water-glass, three heats. Maximum 1760; Medium 880; Minimum 440	42 50
460	Five gallons, platform top for glasses, water-glass, three heats, Maximum 1760; Medium 880; Minimum 440	47 50



IMMERSION COILS.



IMMERSION DISCS.

IMMERSION COIL HEATERS.

THIS useful form of heater has many applications. It may be used for heating liquids contained in almost any kind of vessel, and has the advantage over any other form of liquid heater of communicating all the heat generated to the liquid. Coils are usually sent in cylindrical form, but they can be furnished in flat coils or to conform to the shape of vessels in which they are to be used. These heaters are also made for three divisions of heat, controlled with a switch on the coil. The amounts are maximum, one-half and one-quarter. By having this arrangement the highest economy is obtained in operation, the maximum being used to quickly heat up, and the minimum to maintain the temperature. The coils consist of copper tubes, varying from let of inch in diameter, and are furnished either lpain or nickeled. They are made for 52 or 110 volts alternating or direct current, of such capacity as desired.

No.						One Heat	Three Heat
470	Capacity.	100	to	440	Watts	\$6.50	\$8.00
471	- 64	440	44	660	**	7 50	9.00
472	4.6	700	4.5	880		8 50	10.00
572	14	000	4 4	1100		10.00	12.00

IMMERSION DISC HEATERS.

Copper, nickel-plated and polished; of the diameters given and about one inch thick. This type is desirable for some uses.

No.		One Heat	Three Heats	One Heat	Three Heats
1480	5 in. diameter.	200 Watts	400 Watts	\$8 00	\$10 00
1481	6) "	400	800 ''	12.00	14.50
1482	74	500	1000	13.00	15.50



SMOOTHING IRONS.

ELECTRIC SMOOTHING IRONS.

UNLIKE all others except in form, are always clean, polished, and permit of continuous use. No time is lost in changing, cleaning, or useless rubbing with a cold iron, for they produce a "live heat" which is continuous. A greater amount of work can be done by an operator in a given time with more ease and comfort than is possible with any other frontone the continuous of the proven of the continuous of the provent of the provent of the continuous of the continuous of the provent of the continuous of the continuous of the provent of the continuous of the continuous

No.		Watts	Price
1501	Troy Polishing	330	\$6.00
1502	Small Seaming (can be connected to l	amp socket) 200	5.00
1503	Gentleman's Small Hat Iron	200	5.00
1504	6½ lbs Light Domestic	500	7.00
1504	" round nose	500	7.00
1505	7½ " Domestic	600	7.50
1506	g lbs Heavy Laundry	68o	8 00
1507	9 " Hatters'	550	9.00
1508	g '' Corset	500	9.00
	re " Hatters' Factory	550	11.00

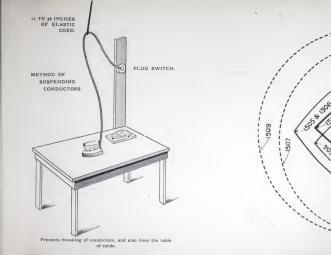
SMOOTHING IRONS WITH AUTOMATIC CUT-OUT.

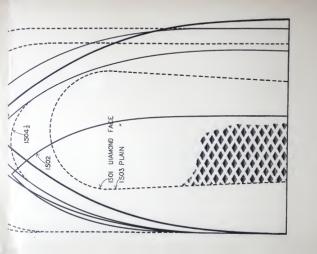
Irons with automatic cut-outs are desirable as they operate to stop the flow of current if the iron is carelessly left by the operator; are also useful to regulate the temperature while at work.

	Troy Polishing 4½ lbs. Small Seaming 6½ 'Light Domestic		Price \$8.50 7.50 9.50	No. 1515 1516 1517 1518 1519	9	6 - 1 4	Laundry "Hatters' Corset Hatters' Factory	Watts 600 680 550 500 550	Price \$10.00 10.50 11.00 11.00
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TAILORS' IRONS.





TAILORS' ELECTRIC IRONS.

Thas been shown by experience that nothing can compare with the results obtained in factories or shops with the electric goose. Aside from the reduced room temperature and improved sanitary condition, electric irone DO MORE WORK AND DO BETTER WORK than irons heated by any other method. Every rub counts; the iron is continuously heated WHERE YOU WANT IT and nowhere else; is always clean in every part, and there are no stoves or leaking gas tubes, no flame of matches required, and the supply of heat can be turned on or off at will. Well men can do more work than sick ones. With electric irons you can have well men operating tools that need never stop. This is the secret, they go all the time. It costs more under most conditions per iron FOR HEAT, but you can do more work in the same time with electric irons than any other. Seven feet of duplex conductor cord attached to each iron; if longer lengths are required, state so in ordering. Price for added length 15 cents per foot. Each hand iron is furnished with stand on slate base. Made for usual voltages; direct or alternating current.

					,				
No.								Watts	Price
1801	12 p	ound	Goose					660	\$10.00
1802	15	64	6.6					660	10 00
1803	18	, 6	46					770	11.00
1804	20	6.6	6.1					770	11.00
1805	14	6.6	Mach	ine Goos				770	10.50
1806	15	4.6		4.4	oval r	iose, 4 in.	wide	88o	11.00
1807	15	4.4		, special	broad s	hape		770	11.00
1808	25	4.	4.6					880	12.00
1809	25	* *	6.		n same a			88o	12.00
1811	12		8.4	with A	utomati	c Cut-Out	:	660	12.50
1812	15	6.6	44		**	**		660	12.50
1813	18	6.6	4.1	4.	* 1	* 6		770	13 50
1814	20	4.4	4.6	6.6	64	6.6		770	13.50
1817	15	4.6	4.6		l broad s			770	13.50
1818	25	4.4	6.6			c Cut-Out		880	14.50
1819	20 01	25 1	pound a	as ordere	d, botto	m same a	s 1806	880	14.50







ELECTRIC CURLING IRON HEATER.

A DEVICE far more important to the lady traveller than many toilet accessories, and in all electrically lighted homes it is a necessity. They are fixtures in the rooms of the greatest hotels in this country, such as the Waldorf-Astoria, Hotel Touraine, etc., as well as the more important steamship lines, such as the North German Lloyd, The Hamburg-American Line, Yacht Niagara, etc. There are more than twenty thousand in daily use. The portable types may be attached to any lamp socket, heat quickly, use no more current than an incandescent lamp and render unnecessary the use of more or less dangerous heating devices in the dressing room, and the tongs are always clean.

When the tongs are removed the current is automatically cut off. When ordering, mention whether Edison, T. H., or Westinghouse sockets are used. One is a package complete, ready for use

No.		Price
1274	Nickel plated, Marbleized base, 60 Watts	\$3.00
1275	Polished Brass, Marbleized base, 60 Watts	3.25
1276	Nickel plated, White Marble base, 60 Watts	4.00
1277	Brass, polished, White Marble base, 60 Watts	4.00
1278	Nickel plated, with Onyx base, 60 Watts	5.00
1279	Bracket form for Hotel or Steamship use. Prices on application.	
1280	Nickel plated, for theatre use, with grease paint plate, 50 Watts	4.00



HEATING PAD.

ELECTRIC HEATING PAD.

In form it is similar to that of a piece of thick, soft felt, and by its use heat may be applied in an ideal way to the body. It is light (weighing but a few ounces), clean, safe and free from all the objectionable features of hot water bottles, poulties or other hot applications, and far more effective It is always ready for use, costs very little to operate, is so constructed that it will last for many years and the first cost is moderate.

The temperature is controlled by the amount of covering placed over the pad — very little being required after the first ten minutes. The maximum heat is limited by a detail of its construction. Its great value in the hospital and cases where hot applications are necessary to sustain life is evident. It is extremely useful as a foot warmer for invalids or elderly people, and proves to be a household necessity where used. Operates on any incandescent lighting circuit. By mail (at your risk) or express at the price mentioned. Guaranteed in every particular

No.						Watts	Price
681	12X15 inches					50	\$ 5.00
683	15x24 "	 ٤.	**	4 4	4.6	 100	10.00

State voltage and kind of socket when ordering.



GLUE POTS.

ELECTRIC GLUE POTS.

JUST what you have been looking for. No fire, no smoke, no dirt, no gases, no danger. It is made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replenished from a reservoir; head by coil heater, arranged to give three divisions of heat. The maximum to be used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk, as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Used in many book-binderies, piano factories, brush factories, etc. Pots are made for 52, 100 or 110 volt circuits.

					Watts required			
No.					Max.	Med.	Min.	Price
403	I	pint	with	reservoir	330	175	85	\$13.00
404	I	quart	4.6	6.6	440	220	100	14.00
405	2	**	4.6	4.6	660	330	170	16.00
406	I	gallon	4.6	4.6	1100	550	275	18 00

Other sizes to order

In addition to the patented glue pot with reservoir we also furnish them without the reservoir. The inner and outer pot is of heavy copper with coiled copper heater, being in every way as substantial and durable as is possible to construct such a device. With this pot it requires from 16 to 20 minutes to have the glue ready for use, starting with everything cold. Much less time is required for the special type, but in no other particular are they superior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work.

		Watts required			
No.		Max.	Med.	Min.	Price
407	1 pint	440	220	IIO	\$10.00
408	1 quart	660	330	170	11.00
409	2 **	880	440	220	12.50



SOLDERING IRONS.

ELECTRIC SOLDERING IRONS.

In every factory one or more solderings are in demand for intermittent use and the cost for time in getting them ready, the danger and risk attending the use of flame or charcoal grant could justify the use of electric soldering irons, were the cost several times as great.

Where soldering irons are in continuous regular use, the advantage is equally as great, for they are continuously supplied with heat. We list three sizes, but make special ones for factory use. All tips are removable.

No.		Price
		11100
240	"Light" for small work, size, 1 in. in diameter, 12 in. long, uses 100 Watts	\$7.00
241	"Medium" equal to about a "two pound iron" if in.	.,
	in diameter, 15 in. long, uses 200 Watts	7.50
242	Equal to about a "three-pound iron" id in, in diameter,	
	156 in. long, uses 275 Watts	8.00

ELECTRIC SOLDER POTS.

THERE are many needs for small quantities of melted solder, babbit metal, and similar alloys which heretofore have required the use of charcoal, gasoline or gas furnaces, that are not only dangerous and dirty but are difficult to maintain at a temperature where the least amount of oxide is formed and yet have the metal in a proper state for use. The electrically heated pots are arranged so that in starting, the metal can be quickly melted, then the current reduced to maintain a uniform temperature at any suitable point.

No. 1718	Solder Pot. 4 lbs. capacity, can be operated from lamp socket. Low Heat (working temperature), 100 Watts medium, 150 Watts maximum (for quick heating), 200 Watts. Price with	
	cord and plug.	\$8.00

No. 1719	Solder Pot. 10 lbs. capacity, should not be operated from	
	lamp sockets. Sent complete with cord, no plug. Low heat	
	(working temperature) 200 Watts, medium 300 Watts, maxi-	
	mum (for quick heating), 440 Watts.	12.0

BABBITT METAL POT AND LADLE COMBINED.

This device is made for use in shops where small amounts of metal are required at a time where it is desirable to cast the boxes on machinery being assembled. By using long flexible conductors this pot can be used from a central point over a large area and supply hot metal where wanted and when wanted. Made to hold 25 lbs. of metted metal, is complete with handle for carrying and pouring and arranged with suitable legs to set on the floor or bench.

No. 1717 3 heats, Maximum Watts 1200

\$20.00

PITCH KETTLE.

THE heater for melting pitch is arranged for three working heats, a large amount for heating the pitch from the cold, a moderate amount of heat for use when the surface of the pitch is being constantly agitated, a small amount of heat for maintaining temperature when the pitch is not being used. This heater is especially adapted for heating fluids and bodies that liquefy at temperatures not exceeding 500 degrees Fahrenheit. Vessel made of cast iron, finished smooth.

	Watts Required, Low	Med.	High	Price
No. 1651	12 in. diameter, 2½ in. deep, 330	66o	1300	\$20.00
No. 1653	15 in. diameter, 2½ in. deep, 400	8oo	1600	

SEALING WAX POTS.

Where sealing wax is used in quantities, it has been found convenient and much safer to use melted wax for making seals, rather than using a stick in a flame. Pots are similar in form to Solder Pots but arranged to keep the wax at a proper consistency for use.

No. 1715 Capacity 1 pt., 3 hea No 1716 " 11 " "	s, 175 Watts max.	\$ 8.00 12.00
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The working current of above is \$\frac{1}{4}\$ of the maximum. State voltage when ordering.



FOOT WARMERS.

ELECTRIC FOOT WARMER.

THIS device appeals at once to many who suffer with their head bursting from heat in a vain endeavor to keep warm. Improper distribution of heat, floor draughts, the temperature difference between the floor and a higher level, all combine to produce cold feet, and as a sequence, an uncomfortable condition generally. The electric foot warmer exactly supplies the remedy by producing a little heat just where it is wanted, and a high temperature in the room is unnecessary. It is made of cast iron in form to constitute a most desirable foot-rest, finished in black japan, is guaranteed to last for many years, and may be left in circuit indefinitely.

Made in two styles. One, No. 1371, with solid top, designed for a mild foot warmer for continuous use without making the feet unduly warm; the other, No. 1375, in register form, designed for supplying a little heat under a desk or at the typewriter, as well as being a foot warmer. Packed complete with cord and plug.

		Price
. 1371	Requires 50 Watts	\$6.0
. 1375	11 200 11	7.0

No.



901 PLUG SWITCH.



904 D. P. CONNECTOR.



908 PLUG SWITCH.

SWITCHES AND FITTINGS.

VITH a view of providing convenient fittings suitable for electric heating apparatus, when we devised the articles listed below. The No, got plug switch consusts of a double pole fusible cut-out and receptacle for the plug of the switch. By using this device a glance shows whether the heater is connected to circuit, enables the heater to be disconnected and removed at will, and is generally more convenient than other forms of switch. The receptacle is of porcelain with hard rubber over and rosewood pluz.

The No. 905 is similar but of larger capacity; the 908 is a "3-way" plug switch and similar to the others.

No. 904 is a hard rubber double pole connector; gog is a pair of porcelain sockets with

ior	use	with apphances having special connections.	
	No.		Price
	901	Plug Switch, complete, with double pole cut-out (Receptacle and Plug) 15 amperes, Extra Plug for 901	\$1.50
	903	Extra Receptacle for No. qor, socket and cut-out combined	75 75
	904	Double Pole Connectors, 15 amperes	2.00
	905	Plug Switch, complete (Receptacle and Plug), 30 amperes Extra Plug for No. 905	2.50
	904 905 906 907 908	Extra Piug for No. 905 Extra Receptacle for No. 905	1.25
	908	Plug Switch, three-way (Receptacle and Plug), 30 amperes	3.00
	909	Cartridge Connectors for water-heating utensils, per set with cord	1.00
	910	Plug only for No. 908	1.25
	911	Receptacle only for No. 908 3-way Connector, 6 amperes only	1.75
	912	3-way Connector, a amperes only	1.50

FLEXIBLE CORD.

Our Twin Conductor Cord, manufactured under Letters Patent, is specially made for the purpose, and has been passed upon and approved by the Board of Underwriters.

TWIN CONDUCTORS.

Made up of No. 34 B. and S. G. wires braided together in proper gauge. Fireproof insulation.

No.	Gauge	Price Per Foot	No.	Gauge	Price Per Foot
Q2I	16	15 cts.	922	14	18 cts.
923	12	20 Cts.	924	10	22 Cts.

Elastic rubber cord for suspending flat iron cords over tables, 3 ft. long, price 3oc.

GENERAL INFORMATION

COST FOR OPERATING.

THE cost for current for operating electric heating apparatus cannot be easily given because there are many variables which would prevent any definite statement being correct. First, the cost for current varies with the locality; in a city with very cheap fuel and liberal patronage the lighting company can supply at a lower price than where fuel is high and the patronage limited. Second, the amount of current used will vary the cost, as it is the general practice to give discounts for the amount used over a stated quantity. Third, the operators can, in many cases, use much or little to perform the same amount of work. This last statement applies particularly to domestic apparatus -i.e., forty minutes current supply will cook a roast that requires an hour and a half in the oven, yet a careless cook might leave the current on for the full time with no advantageous results. Water can be boiled in a tea kettle with full current in say fifteen minutes, and then kept boiling with one-fourth the full amount. In using a radiator, it may be allowed to run at full load without serious discomfort, yet one-third the full supply would be ample. To enable approximate estimates to be made by those not familiar with electrical terms, we can state that the usual incandescent lamp requires a constant supply of so Watts of electrical energy, and to determine the lamp equivalent for any particular article, divide the Watts given in the list by fifty.

Take for example, No. 1736 tea kettle; this requires 200 Watts maximum, which equals four lamps. This amount of current is required for fifteen minutes to boil one pint of water starting with everything cold) and then by the operation of the switch it can be kept boiling indefinitely, using only 50 Watts, the current required for one lamp. Knowing the cost to operate a lamp for one hour it is easy to compute the cost per hour for operating the different devices,

if run continuously by the hour at a stated load.

There are many items in the catalogue for use at home, such as the Curling Iron Heater, Seaming Iron, Heating Pad, Small (1720) Stove and Stew-pan, Tea Kettle (1724), etc., that use

so little current that the cost for operating is inappreciable. This applies as well to the Chafing Dish, 5 O'clock Tea and other articles for occasional use.

For summer cooking and laundry use, special rates can always be obtained, and the cost for Electric heat, if care is used, will be found about as cheap as other fuels. Actual experience shows practically no change in the room temperature in summer where Electric cooking, is in process.

TIME REQUIRED.

Stoves and Griddles are ready for use, I.c., have reached a temperature for cooking, in from 5 to 8 minutes from time current is turned on. Broiler, 12 to 14 minutes; Oven, 20 minutes; Farina Boilers, 6 to 8 minutes; Chafing Dishes, 10 minutes; Stew-pan, 5 minutes; Laundry Irons. 8 to 10 minutes very hot; Tailor's Irons, 6 to 12 minutes; Foot Warmers, 5 to 15 minutes; Curling Iron Heater, 6 to 8 minutes; Plate Warmer, 10 minutes; Soldering Iron, 5 to 8 minutes; Glue Pots, 15 to 30 minutes.

To boil water, starting with water and heater cold. Strw-pan (1720), I plint 16 minutes; small Tea Kettle (1726), I pint 15 minutes; Five O'clock (1892), I quart 18 minutes; 6 inch atowes (using suitable flat bottom vessel), I quart 18 minutes; Ceak Kettle (1851), I quart 15 minutes, 2 quarts 28 minutes; Hot Water Urns, I gallon, one-half full in 30 minutes, full in 6 mour; 2 gallons, one-half full in 50 minutes, I gull in 6 minutes; there gallons, one-half full in 37 minutes, full in 6 minutes; Struck water, about 176 degrees F. can be had in about the worth first he time stated for boiling Water heaters can be made to boil the quantities mentioned in about half the time, but the current required would be nearly double that mentioned for any standard articles. Coil heaters when immersed in a covered vessel give the following results, using maximum current, and after water boils will maintain it at the boiling point

with one-fourth of the maximum.

No. 470 (\$60 Waits | 19t, 10 minutes | 1 qt, 19 minutes | 2 qts, 25 minutes.

No. 471 (\$60 '') | 1 pt., 7 minutes | 1 qt., 12 minutes | 2 qts, 21 minutes | 2 qts, 28 minutes.

No. 471 (\$60 '') | 1 pt., 7 minutes | 1 qt., 8 minutes | 2 qts, 21 minutes | 2 qts, 28 minutes.

No. 472 (\$60 '') | 1 pt., 7 minutes | 1 qt., 8 minutes | 2 qts, 28 minutes | 2 qts, 28 minutes.

No. 484 (1650 ") aqts. 8 minutes; 7 gal., 14 minutes; 7 gals., 26 minutes; 3 gals., 35 minutes.

Practically the same results are obtained with immersion disc heaters of the same Watt capacity.

With nearly all articles special instructions are sent to enable the user to get the best results

INSTALLATION AND USE

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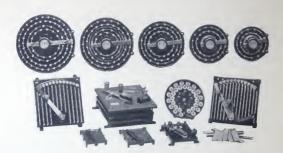
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CODE FOR TELEGRAPHING ORDERS.

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Send by express the following for
                                      52 volts - Oue.
Send by fast freight the following for 52 volts -- Vac.
Send by express the following for
                                     104 volts - Ouid.
Send by fast freight the following for 104 volts - Vade.
Send by express the following for
                                     110 volts - Quail.
Send by fast freight the following for 110 volts - Valet.
Send by express the following for
                                     115 volts - Quadrant.
Send by fast freight the following for 115 volts - Valance.
Send by express the following for 120 volts - Quote.
Send by fast freight the following for 120 volts - Valiant.
Send by express the following for 220 volts -- Quadroon.
Send by fast freight the following for 220 volts - Valentine.
Send by express the following for 500 volts - Quadrille.
Send by fast freight the following for 500 volts - Vainly.
For Edison Socket - -
                                                Edison.
For Westinghouse Socket -
                                                West
For Thomson-Houston Socket -
                                                Thomson.
```

As all articles in the catalogue are numbered the code word and number only need be used in sending an order.



ENAMEL RHEOSTATS-UNIT SYSTEM.

UNIVERSAL FIELD RHEOSTATS.

MOTOR STARTING RHEOSTATS
(plain or with Automatic release).

MOTOR SPEED REGULATORS (plain or with Automatic release).

THEATRE DIMMERS.

SPECIAL RESISTANCE WORK.

THE immediate success of our Universal Enamel Field Rheostats resulted in a demand for Motor Starters and Theatre Dimmers embodying the same characteristics. The feature of scparate removable sections enables us to make the most compact. indestructible rheostat that can be built, and also to insulate for high voltage

Send for Rheostat lists. We can make prompt shipments of standard apparatus and frequently supply special work from stock by reason of the "Unit System."

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A Well-Arranged Ironing Table for Electric Smoothing Irons.



State Institutions in

INDIANA
ILLINOIS
MICHIGAN
MINNESOTA
WISCONSIN
NEW YORK

OHIO VIRGINIA MARYLAND MAINE MASSACHUSETTS

And other States, find our Laundry Irons indispensable.

The above shows one of the ironing tables in the Electric Laundry of the Hospital for the Insane at Indianapolis, Indiana The table is arranged for twelve operators. The central section is ten feet in diameter, from which branch twelve ironing boards, each 4 feet 6 inches by 18 inches. On the edge of the main table at equal intervals are placed at cast-iron pedestals, from the top of which extend ½ inch iron pipe bent in the form as shown. Cut outs and switches are placed at the base of the pedestals and the wires leaf from there through the pedestals and pipes to the irons.

